Numbers and Operations
Lesson 1: Worksheet
Math for Standards

Name _____

Date _____

For each question, you need to find the answer and show your work. Each problem is worth 3 points: one for the correct answer and two for showing your work. For some problems, you may just need to write out how you know you have the correct answer.

1. Simplify: $2(5 - 3) + 8$

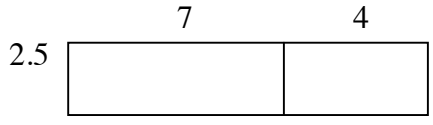
2. Evaluate: $e - 2f$ where $e = 5$ and $f = 8$

3. Simplify: $12a + 8b - 20r + 7b$

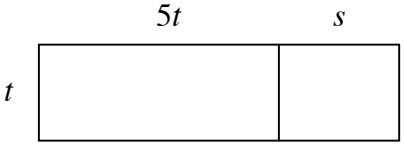
4. Six painters each used 3 gallons of paint for 4 rooms. On another project, 4 painters each used 6 gallons of paint for each of 3 rooms. Which property explains why both groups of painters used the same amount of paint? Justify your answer.

5. If $x + y = y$, what is the value of xy?

6. Find an expression that could be used to find the area of the large rectangle shown below.



7. Find an expression that could be used to find the area of the large rectangle shown below and simplify, if possible.



8. Simplify $4m + 7n - 2m - 5n$.

9. Which expression is a correct application of the distributive property?

a. $4(x+1) = 4x+1$

b. $7 + 3r = (7+3)r$

c. $(3x+5)y = 3x+5y$

d. $4f + 16g = 4(f+4g)$

Open-Ended Question: Answer the following question on a separate piece of paper. Make sure as you answer the open-ended question that you show your work AND explain how you know you are doing the correct work. YOU MUST EXPLAIN WHAT YOU ARE DOING!!!

You order 6 CDs and 4 DVDs from a catalog company. Each CD is $10.98, and each DVD is $16.95. The total shipping cost is $4.68

A. Write an expression that could be used to find the total amount you pay for your order.

B. Use the expression to find the amount you pay.